

HULHUMALE' PHASE II SCHOOLS EMPLOYER'S REQUIREMENT

INTRODUCTION

The Ministry of Education invites all interested parties for the proposed development of 03 new schools in Phase II of Hulhumale' under Contractor-Financing. The proposed schools are to be designed and construct to accommodate approximately 1200 students per school. All schools are required to be fully furnished, and completed with boundary wall, gates, and school compound landscaping. These buildings are to be designed and developed as Reinforced Concrete (RC) buildings.

The facilities/rooms/spaces required in each of the schools are listed out on the pages below. The unit area indicated for each facility/room/space is a minimum value, only to be used as a design guideline. Hence the total area values are to be disregarded as well. The contractor is allowed to relocate items between floors provided that the access requirements are met. The list also includes the floor, wall, and ceiling finish requirements for each of the facilities. The building is to be completed within 24 months from commencement date.

The 3 lots assigned for the school are shown in the map on the pages below. They are; N5-26, N6-34 and N6-38a. The Area (square metre), Height (Floors), and Maximum Gross Floor Area are also indicated on the map.

DESIGN CONSIDERATION

- **Functionality of concept**

It is most important that the conception underlying the design consider the overall functionality of the building as one harmonious structure. The building shall provide maximum accessibility as a part of the general conception of the building.

- **Meeting technical requirements of client**

The facilities/rooms/spaces required in each of the schools are listed in the following attachments. This should be thoroughly researched for similar facilities and integrated in the concept design proposed.

- **Integration of design to environment**

The building should strive to make great potential of the area and to appropriately integrate into it. It would be desirable to take full benefit of the spectacular view and maintain eye contact with the important sites in the area. The building shall bend with the surroundings of the allocated site and account the future developments in the vicinity. The building should exhibit a contemporary architecture and shall compliment the surrounding environment.

- **Aesthetic quality of design**

The development shall compliment all quality aspects both during design and development phase of the project. It shall resonate how well the design represents client values and the mechanism where spaces relate to each other. Similarly, the overall accessibility of design, standards of materials and finishes, complimenting sustainability and safety of the building are key aspects that defines the overall quality of the building.

- **Sustainable design**

The ideologies of sustainable building should be taken into account. The planning and design should facilitate energy efficiency of the building, including lighting, air-conditioning, ventilation, maintenance, etc., and should strive for maximum exploitation of natural resources (such as sunlight, rainwater harvesting, and wind flow).

MAJOR AREAS (MINIMUM REQUIREMENT)

FLOORS	SPACES	NO	UNIT AREA - M2	Total area (M2)
Ground floor	entrance lobby	1	113	113
	security post	1	33.12	33.12
	reception and student services	1	58.29	58.29
	classroom	5	58.29	291.45
	health room	1	37.39	37.39
	councillors room	1	16.11	16.11
	common room	1	58.29	58.29
	breakfast and seating area	1	564.58	564.58
	main canteen	1	77.47	77.47
	staff canteen	1	57.85	57.85
	special education room	1	58.29	58.29
	vocational class room	1	58.29	58.29
	store room	1	58.29	58.29
	maintenance room	1	58.29	58.29
	resource room	1	42.9	42.9
	panel room	1	26.16	26.16
	pump room	1	16	16
	fire pump	1	9.85	9.85
	kitchen	1	57.41	57.41
	student male toilets block	2	37.15	74.3
	student female toilet block	2	37.15	74.3
	staff male toilet	1	25.68	25.68
	staff female toilets	1	25.68	25.68
	disable toilet	1	8.74	8.74
	courtyards	1	414	414
	soccer pitch	1	524.88	524.88
	Ground floor		total area	2840.61
	parking areas			
	car parks	19	12.96	246.24
	bike parking	132	1.04	137.28
	loading and unloading area	1	114.86	114.86
	parking	total area	498.38	

First floor	class rooms	6	58.29	349.74
	clubroom	1	58.29	58.29
	home science	2	58.29	116.58
	band room	1	58.29	58.29
	audio visual room	1	58.29	58.29
	male prayer room and ablution area	1	85.68	85.68
	female prayer room and ablution area	1	85.68	85.68
	sports room	1	58.29	58.29
	Main Hall	1	607.1	607.1
	Back stage facilities	1	279.6	279.6
	staff lounge	1	50	50
	common area	1	61.32	61.32
	male student toilets	1	38.21	38.21
	female student toilets	1	38.16	38.16
	female staff toilets	1	25.68	25.68
1st floor		total area	1970.91	

Second floor	classrooms	15	58.29	874.35
	music room and music equipment store	1	84.17	84.17
	store	1	140	140
	staff lounge	1	50	50
	student male toilets	1	38.21	38.21
	student female toilets	1	38.16	38.16
	male staff toilets	1	25.68	25.68
2nd floor		total area	1250.57	

Third floor	class rooms	14	58.29	816.06
	indoor kids play area	1	374.2	374.2
	indoor sports court	1	400	400
	activity room	1	95.32	95.32
	training room	1	95.32	95.32
	common outdoor area	2	84.38	168.76
	staff lounge	1	50	50
	student male toilets	1	38.21	38.21
	student female toilets	1	38.16	38.16
	staff female toilets	1	25.68	25.68
3rd floor		total area	2101.71	

Fourth floor	classrooms	7	58.29	408.03
	computer lab	1	113.97	113.97
	staff room and pantry	1	169.65	169.65
	staff lounge	1	50	50
	Bio lab and store	1	168.74	168.74
	chem lab and store	1	159.86	159.86
	physics lab and store	1	159.86	159.86
	library	1	304.5	304.5
	common out door area	1	76.04	76.04
	student male toilets	1	38.21	38.21
	student female toilets	1	38.21	38.21
	staff toilets male	1	25.68	25.68
	staff toilets female	1	25.68	25.68
	4th floor	total area	1738.43	

Fifth floor	classroom	7	58.29	408.03
	printing room	1	58.29	58.29
	server room	1	58.29	58.29
	staff room and pantry	1	169.65	169.65
	leading teachers room	1	113.97	113.97
	staff room and pantry	1	159.86	159.86
	meeting room	1	113.97	113.97
	general admin office	1	113.97	113.97
	principal room	1	58.29	58.29
	assistant principal room	1	58.29	58.29
	general pantry	1	41.76	41.76
	waiting area	1	58.29	58.29
	common area	1	61.32	61.32
	common room	1	58.29	58.29
	staff lounge	1	50	50
	student male toilets	1	38.21	38.21
	student female toilets	1	38.16	38.16
	staff male toilets	2	25	50
	staff female toilets	2	25	50
	5th floor	total area	1758.64	

General facilities	lift	3
	stairs	5
	general store	6
	water dispensers	6
	furniture	
General Notes		capacity
Total class rooms is 54 Nos		36 per class
Hall capacity 100		800 - 1000
Lift capacity 20		20 per lift

Finishes		
Spaces	Wall Finishes	Floor Finishes
Classrooms	Ground smooth finished with selected emulsion Paint	600 x 600 Homogenous non-skid floor tiles
Halls	Ground smooth finished with selected emulsion Paint	Self Levelling cement floor screed with epoxy floor paint
Office Areas	Ground smooth finished with selected emulsion Paint	600 x 600 Homogenous non-skid floor tiles
Toilets	300 x 300 homogenous wall tiles	300 x 300 Homogenous non-skid floor tiles
Laboratory	Up to 1.2m high 300 x 600 homogenous wall tiles and ground smooth finished with selected emulsion paint above	600 x 600 Homogenous non-skid floor tiles
Library	Ground smooth finished with selected emulsion Paint	600 x 600 Homogenous non-skid floor tiles
Storerooms	Ground smooth finished with selected emulsion Paint	600 x 600 Homogenous nonskid floor tiles
Corridor & Exterior Spaces	Ground smooth finished with selected emulsion Paint	Self-leveling cement floor screed with epoxy floor paint finish
Courtyard		Landscaping / White sand
Soccer Pitch		FIFA grade turf floor finish
Computer Lab	Ground smooth finished with selected emulsion Paint	600 x 600 Homogenous non-skid floor tiles
Canteen, Kitchen	Ground smooth finished with selected emulsion Paint	600 x 600 Homogenous non-skid floor tiles
Meeting Room	Ground smooth finished with selected emulsion Paint	600 x 600 Homogenous non-skid floor tiles

Furnitures	
Spaces	
Classrooms	Chairs, Desk, White Board, Teacher desk ,chair, shelves, ACs
Halls	Seating
Office Areas	Filing Cabinet, Office chairs with wheels, 1200 x 600mm desks
Toilets	
Laboratory	Lab tables, Chairs, Teachers desk and chair, White board, Cabinets, ACs
Library	Shelves, Tables , Chairs, ACs
Storerooms	
Corridor & Exterior Spaces	
Courtyard	
Soccer Pitch	Sitting benches, goal posts
Computer Lab	Computer chairs, Desks, ACs
Canteen, Kitchen	Chairs, Desk, Counter
Meeting Room	Table, Chairs, Projector with screen, ACs
NOTE: All similar areas indicated in MAJOR AREAS are to be fully furnished in accordance with the furniture's mentioned above. It is a requirement by the Employer to incorporate all furniture required for the building(s) in the Schedule of Activities.	

Services Requirements	
Category	
Water Supply	Water Supply shall be according MWSC Requirements. Separate pumps shall be provided for both water and irrigation.
Rainwater Harvesting	Rainwater tanks shall be provided with capacities sufficient for irrigation
Storm water drainage	Adequate Stormwater Drainage System shall be provided and incorporated with rainwater harvesting system.
Kitchen Drainage	Oil Traps shall be provided according to MWSCs requirements
Laboratory Drainage	Dilution Tanks shall be provided
Ventilation	Adequate Air conditioning and Ventilations systems shall be provided according to client requirements and consultants approval. Air Conditions shall be provided in Office Areas, Laboratory, Computer Lab, Meeting Room, AV rooms.

Fire Safety	Fire Detection and Protection Systems shall be provided according to MNDF guidelines and approval
Power and Lighting	Power outlets and lighting shall be provided according to client requirements and consultants approval
Public Address System	Public address systems shall be provided according to clients requirements
IT System	IT Network and systems Shall be Provided according to clients requirements
Security Systems	Camera system shall be provided covering all corridors, stairs, Lifts and grounds
Service Ducts	All Service Ducts shall be Accessible for Maintenance



PARCEL_NO	AREA_SQM	HEIGHT_FLR	MAX_GFA
N5-21	4653	6	9771
N5-26	4668	6	8963
N5-16	5376	6	12902
N6-34	4202	6	7332
N4-23	6088	6	12785
N6-38a	4260	6	7667

0 2550 100 150 200
Meters

DRAWING: SCHOOLS - HULHUMALE' PHASE II

Scale: 1:7,000

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Checked By:

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Remarks: